## **EAST Search History**

S11         1         10/559598         US-PGPUB; USPAT           S12         1050         ((spray\$4 with coat\$4) same ((vacuum or suction) with (oylinder or roll or drum)))         US-PGPUB; USPAT           S13         9         S12 and (surface adj siz\$4)         US-PGPUB; USPAT           S14         1         10/573321         US-PGPUB; USPAT           S15         4         (("5543015") or ("6296738") or ("6416630") USPAT         US-PGPUB; USPAT           S15         4         (("5643015") or ("6296738") or ("6416630") USPAT         US-PGPUB; USPAT           S16         1054         ((spray\$4 with coat\$4) same ((vacuum or suction) with (cylinder or roll or drum)))         US-PGPUB; USPAT           S17         9         S16 and (surface adj siz\$4)         US-PGPUB; USPAT           S18         3         (("20020164428") or ("3850673") or ("3850673") or ("3850673") or ("4340011")).PN.         US-PGPUB; USPAT           S19         1         10/559598         US-PGPUB; USPAT           S20         0         S17 and (kpa or mpa)         US-PGPUB; USPAT           S21         6         S16 and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S22         3145         ((spray\$4 with coat\$4) and ((vacuum or underpressure) with (kpa or mpa))         US-PGPUB; USPAT           S23         47	Ref #	Hits	Search Query	DBs
S12				
S12         1050         ((spray\$4 with coat\$4) same ((vacuum or suction) with (cylinder or roll or drum)))         US-PGPUB; USPAT           S13         9         S12 and (surface adj siz\$4)         US-PGPUB; USPAT           S14         1         10/573321         US-PGPUB; USPAT           S15         4         (("5543015") or ("6296738") or ("6416630") or ("7374640")).PN.         US-PGPUB; USPAT           S16         1054         ((spray\$4 with coat\$4) same ((vacuum or suction) with (cylinder or roll or drum)))         US-PGPUB; USPAT           S17         9         S16 and (surface adj siz\$4)         US-PGPUB; USPAT           S18         3         ("20020164428") or ("3850673") or ("4340011")).PN.         US-PGPUB; USPAT           S19         1         10/559598         US-PGPUB; USPAT           S20         0         S17 and (kpa or mpa)         US-PGPUB; USPAT           S21         6         S16 and ((vacuum or suction) with (kpa or mpa)         US-PGPUB; USPAT           S22         3145         ((spray\$4 with coat\$4) and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S23         47         S22 and ((vacuum or suction) with (kpa or mpa)         US-PGPUB; USPAT           S24         132         ((vacuum or suction) with (kpinder or roll or drum))         US-PGPUB; USPAT           S25	011		10/559596	
Suction) with (cylinder or roll or drum))   USPAT	C10	1050	//cprov\$4 with coat\$4) came //vacuum or	
S13         9         S12 and (surface adj siz\$4)         US-PGPUB; USPAT           S14         1         10/573321         US-PGPUB; USPAT           S15         4         (("5543015") or ("6296738") or ("6416630") USPAT or ("7374640")).PN.         USPAT USPAT           S16         1054         ((spray\$4 with coat\$4) same ((vacuum or suction) with (cylinder or roll or drum)))         USPAT           S17         9         S16 and (surface adj siz\$4)         US-PGPUB; USPAT           S18         3         (("20020164428") or ("3850673") or ("3850673") or ("4340011")).PN.         US-PGPUB; USPAT           S19         1         10/559598         US-PGPUB; USPAT           S20         0         S17 and (kpa or mpa)         US-PGPUB; USPAT           S21         6         S16 and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S22         3145         ((spray\$4 with coat\$4) and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S23         47         S22 and ((vacuum or suction) with (kpa or roll or drum)))         US-PGPUB; USPAT           S24         132         ((vacuum or suction) with (cylinder or roll or drum) with (kpa or mpa)         US-PGPUB; USPAT           S25         21         S24 and ("162"/\$.ccls. or "118"/\$.ccls.)         US-PGPUB; USPAT           S26	312	1050		
S14	C12	0		
S14         1         10/573321         US-PGPUB; USPAT           S15         4         (("5543015") or ("6296738") or ("6416630") or ("7374640")).PN.         USPAT           S16         1054         ((spray\$4 with coat\$4) same ((vacuum or suction) with (cylinder or roll or drum)))         US-PGPUB; USPAT           S17         9         S16 and (surface adj siz\$4)         US-PGPUB; USPAT           S18         3         (("20020164428") or ("3850673") or ("3440011")).PN.         US-PGPUB; USPAT           S19         1         10/559598         US-PGPUB; USPAT           S20         0         S17 and (kpa or mpa)         US-PGPUB; USPAT           S21         6         S16 and ((vacuum or suction) with (kpa or mpa)         US-PGPUB; USPAT           S22         3145         ((spray\$4 with coat\$4) and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S23         47         S22 and ((vacuum or suction) with (kpa or mpa)         US-PGPUB; USPAT           S24         132         ((vacuum or suction) with (cylinder or roll or drum) with (kpa or mpa)         US-PGPUB; USPAT           S25         21         S24 and ("162"/\$.ccls. or "118"/\$.ccls.)         US-PGPUB; USPAT           S26         1         "7390557"         DEFWENT           S27         1         "02072952"	013	٦	STZ and (Surface adj SIZ\$4)	· ·
S15	C1 /	1	10/579991	
S15	314		10/3/3321	
Since   1054   ((spray\$4 with coat\$4) same ((vacuum or suction) with (cylinder or roll or drum)))   US-PGPUB; US-PAT   Since	\$15	1	(("55/3015") or ("6296738") or ("6/16630")	
S16         1054         ((spray\$4 with coat\$4) same ((vacuum or suction) with (cylinder or roll or drum)))         US-PGPUB; USPAT           S17         9         S16 and (surface adj siz\$4)         US-PGPUB; USPAT           S18         3         (("20020164428") or ("3850673") or US-PGPUB; USPAT           S19         1         10/559598         US-PGPUB; USPAT           S20         0         S17 and (kpa or mpa)         US-PGPUB; USPAT           S21         6         S16 and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S22         3145         ((spray\$4 with coat\$4) and ((vacuum or suction)) with (kpa or mpa))         US-PGPUB; USPAT           S23         47         S22 and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S24         132         ((vacuum or suction) with (cylinder or roll or drum))         US-PGPUB; USPAT           S25         21         S24 and ("162"/\$.ccls. or "118"/\$.ccls.)         US-PGPUB; USPAT           S26         1         "7390557"         DERWENT           S27         1         "02072952"         EPO; DERWENT           S29         82         ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and (suction or vacuum or underpressure) with (kpa or mpa or psi or psi or psi or psia or psig))         USPAT           S31         2			, , , , , , , , , , , , , , , , , , , ,	00171
Suction   with (cylinder or roll or drum)))	S16	1054		LIS-PGPLIR:
S17         9         S16 and (surface adj siz\$4)         US-PGPUB; USPAT           S18         3         (("20020164428") or ("3850673") or ("4340011")).PN.         US-PGPUB; USPAT           S19         1         10/559598         US-PGPUB; USPAT           S20         0         S17 and (kpa or mpa)         US-PGPUB; USPAT           S21         6         S16 and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S22         3145         ((spray\$4 with coat\$4) and ((vacuum or suction)) with (kpa or mpa))         US-PGPUB; USPAT           S23         47         S22 and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S24         132         ((vacuum or suction) with (cylinder or roll or drum))         US-PGPUB; USPAT           S25         21         S24 and ("162"/\$.ccls. or "118"/\$.ccls.)         US-PGPUB; USPAT           S26         1         "7390557"         DERWENT           S27         1         "02072952"         EPO; DERWENT           S28         3         "2002072952"         EPO; DERWENT           S29         82         ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psi or psia or psig))         USPAT           S31         25         ("vac" with cylinder) and (me		1054		· ·
S18   3	S17	a		
S18         3         (("20020164428") or ("3850673") or ("4340011")).PN.         US-PGPUB; USPAT           S19         1         10/559598         US-PGPUB; USPAT           S20         0         S17 and (kpa or mpa)         US-PGPUB; USPAT           S21         6         S16 and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S22         3145         ((spray\$4 with coat\$4) and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S23         47         S22 and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S24         132         ((vacuum or suction) with (cylinder or roll or drum) with (kpa or mpa))         US-PGPUB; USPAT           S25         21         S24 and ("162"/\$.ccls. or "118"/\$.ccls.)         US-PGPUB; USPAT           S26         1         "7390557"         DERWENT           S27         1         "02072952"         EPO; DERWENT           S28         3         "2002072952"         EPO; DERWENT           S29         82         ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psi or psi or psia or psig))         USPAT           S30         11         D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psi or psia or psig)         USPAT		ľ	Oro and (buriado daj bizar)	· · · · · · · · · · · · · · · · · · ·
C"4340011")).PN.   USPAT	S18	3	(("20020164428") or ("3850673") or	
S19         1         10/559598         US-PGPUB; USPAT           S20         0         S17 and (kpa or mpa)         US-PGPUB; USPAT           S21         6         S16 and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S22         3145         ((spray\$4 with coat\$4) and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S23         47         S22 and ((vacuum or suction) with (cylinder or roll or drum))         US-PGPUB; USPAT           S24         132         ((vacuum or suction) with (cylinder or roll or drum) with (kpa or mpa))         US-PGPUB; USPAT           S25         21         S24 and ("162"/\$.ccls. or "118"/\$.ccls.)         US-PGPUB; USPAT           S26         1         "7390557"         DEFWENT           S27         1         "02072952"         EPO; DEFWENT           S28         3         "2002072952"         EPO; DEFWENT           S29         82         ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and (suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig)         USPAT           S30         11         D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig)         USPAT           S31         25         ("vac" with cylinder) and (metso or valmet)         USPAT           S33 </td <td></td> <td> </td> <td>, , , , , , , , , , , , , , , , , , , ,</td> <td></td>			, , , , , , , , , , , , , , , , , , , ,	
S20         0         S17 and (kpa or mpa)         US-PGPUB; USPAT           S21         6         S16 and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S22         3145         ((spray\$4 with coat\$4) and ((vacuum or suction) with (kpa or suction) with (cylinder or roll or drum)))         US-PGPUB; USPAT           S23         47         S22 and ((vacuum or suction) with (kpa or mpa))         US-PGPUB; USPAT           S24         132         ((vacuum or suction) with (cylinder or roll or drum) with (kpa or mpa))         US-PGPUB; USPAT           S25         21         S24 and ("162"/\$.ccls. or "118"/\$.ccls.)         US-PGPUB; USPAT           S26         1         "7390557"         DERWENT           S27         1         "02072952"         EPO; DERWENT           S28         3         "2002072952"         EPO; DERWENT           S29         82         ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and (suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))         USPAT           S30         11         D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig)         USPAT           S31         25         ("vac" with cylinder) and (metso or valmet)         USPAT           S32         5         S29 and S31         USPAT	S19	1	i ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
\$20         0         \$17 \text{ and (kpa or mpa)}         US-PGPUB; USPAT           \$21         6         \$16 \text{ and ((vacuum or suction) with (kpa or mpa))}         US-PGPUB; USPAT           \$22         \$3145         ((spray\$4 with coat\$4) and ((vacuum or suction) with (spa or dum)))         US-PGPUB; USPAT           \$23         \$47         \$22 \text{ and ((vacuum or suction) with (kpa or mpa))}         US-PGPUB; USPAT           \$24         \$132         ((vacuum or suction) with (cylinder or roll or drum) with (kpa or mpa))         US-PGPUB; USPAT           \$25         \$21         \$24 \text{ and ("162"/\$.ccls. or "118"/\$.ccls.)}         US-PGPUB; USPAT           \$26         \$1         "7390557"         DERWENT           \$27         \$1         "02072952"         EPO; DERWENT           \$28         \$3         "2002072952"         EPO; DERWENT           \$29         \$82         ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and (suction or vacuum or underpressure) with (kpa or mpa or psi or psi or psia or psig))         USPAT           \$30         \$11         \$21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psi or psi or psia or psig)         USPAT           \$31         \$25         ("vac" with cylinder) and (metso or valmet)         USPAT           \$32         \$5         \$29 \text{ and } (\$15\$ or U\$-\$58				•
S21   6   S16 and ((vacuum or suction) with (kpa or mpa))   US-PGPUB; USPAT	S20	0	S17 and (kpa or mpa)	
Mpa)   USPAT				· ·
S22         3145         ((spray\$4 with coat\$4) and ((vacuum or suction) with (cylinder or roll or drum)))         US-PGPUB; U	S21	6	S16 and ((vacuum or suction) with (kpa or	US-PGPUB;
Suction   with (cylinder or roll or drum))				USPAT
Suction   with (cylinder or roll or drum))   USPAT	S22	3145	((spray\$4 with coat\$4) and ((vacuum or	US-PGPUB;
\$23       47       \$22 and ((vacuum or suction) with (kpa or mpa))       US-PGPUB; USPAT         \$24       132       ((vacuum or suction) with (cylinder or roll or drum) with (kpa or mpa))       US-PGPUB; USPAT         \$25       21       \$24 and ("162"/\$.ccls. or "118"/\$.ccls.)       US-PGPUB; USPAT         \$26       1       "7390557"       DERWENT         \$27       1       "02072952"       EPO; DERWENT         \$28       3       "2002072952"       EPO; DERWENT         \$29       82       ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))       USPAT         \$30       11       D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig)       USPAT         \$31       25       ("vac" with cylinder) and (metso or valmet)       USPAT         \$32       5       \$29 and \$31       USPAT         \$33       5       (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.       USPAT         \$34       5       \$33 and (kpa or mpa or psi or psia or psig)       USPAT         \$35       82       (US-6286524-\$ or US-4743419-\$ or US-       USPAT				USPAT
\$24       132       ((vacuum or suction) with (cylinder or roll or drum) with (kpa or mpa))       US-PGPUB; USPAT         \$25       21       \$24 and ("162"/\$.ccls. or "118"/\$.ccls.)       US-PGPUB; USPAT         \$26       1       "7390557"       DERWENT         \$27       1       "02072952"       EPO; DERWENT         \$28       3       "2002072952"       EPO; DERWENT         \$29       82       ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))       USPAT         \$30       11       D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))       USPAT         \$31       25       ("vac" with cylinder) and (metso or valmet)       USPAT         \$32       5       \$29 and \$31       USPAT         \$33       5       (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.       USPAT         \$34       5       \$33 and (kpa or mpa or psi or psia or psig)       USPAT         \$35       82       (US-6286524-\$ or US-4743419-\$ or US-       USPAT	S23	47		US-PGPUB;
drum) with (kpa or mpa)   USPAT			mpa))	USPAT
S25       21       S24 and ("162"/\$.ccls. or "118"/\$.ccls.)       US-PGPUB; USPAT         S26       1       "7390557"       DERWENT         S27       1       "02072952"       EPO; DERWENT         S28       3       "2002072952"       EPO; DERWENT         S29       82       ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))       USPAT         S30       11       D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig)       USPAT         S31       25       ("vac" with cylinder) and (metso or valmet)       USPAT         S32       5       S29 and S31       USPAT         S33       5       (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$ ).did.       USPAT         S34       5       S33 and (kpa or mpa or psi or psia or psig)       USPAT         S35       82       (US-6286524-\$ or US-4743419-\$ or US-       USPAT	S24	132	((vacuum or suction) with (cylinder or roll or	US-PGPUB;
S26				USPAT
\$26         1         "7390557"         DERWENT           \$27         1         "02072952"         EPO; DERWENT           \$28         3         "2002072952"         EPO; DERWENT           \$29         82         ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))         USPAT           \$30         11         D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))         USPAT           \$31         25         ("vac" with cylinder) and (metso or valmet)         USPAT           \$32         5         \$29 and \$31         USPAT           \$33         5         (US-5775001-\$ or US-55862613-\$ or US-5630285-\$).did.         USPAT           \$34         5         \$33 and (kpa or mpa or psi or psia or psig)         USPAT           \$35         82         (US-6286524-\$ or US-4743419-\$ or US-US-A743419-\$ or US-US	S25	21	S24 and ("162"/\$.ccls. or "118"/\$.ccls.)	US-PGPUB;
\$27       1       "02072952"       EPO; DERWENT         \$28       3       "2002072952"       EPO; DERWENT         \$29       82       ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))       USPAT         \$30       11       D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))       USPAT         \$31       25       ("vac" with cylinder) and (metso or valmet)       USPAT         \$32       5       \$29 and \$31       USPAT         \$33       5       (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.       USPAT         \$34       5       \$33 and (kpa or mpa or psi or psia or psig)       USPAT         \$35       82       (US-6286524-\$ or US-4743419-\$ or US-US-AT       USPAT				
DERWENT				
S28       3       "2002072952"       EPO; DERWENT         S29       82       ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))       USPAT         S30       11       D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))       USPAT         S31       25       ("vac" with cylinder) and (metso or valmet)       USPAT         S32       5       S29 and S31       USPAT         S33       5       (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.       USPAT         S34       5       S33 and (kpa or mpa or psi or psia or psig)       USPAT         S35       82       (US-6286524-\$ or US-4743419-\$ or US-US-AT       USPAT	S27	1	"02072952"	•
S29         82         ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))         USPAT           S30         11         D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))         USPAT           S31         25         ("vac" with cylinder) and (metso or valmet)         USPAT           S32         5         S29 and S31         USPAT           S33         5         (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.         USPAT           S34         5         S33 and (kpa or mpa or psi or psia or psig)         USPAT           S35         82         (US-6286524-\$ or US-4743419-\$ or US-US-AT         USPAT		_		
S29       82       ("162"/\$.ccls. or "34"/\$.ccls.) and dry\$4 and cylinder\$4 and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))       USPAT         S30       11       D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))       USPAT         S31       25       ("vac" with cylinder) and (metso or valmet)       USPAT         S32       5       S29 and S31       USPAT         S33       5       (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.       USPAT         S34       5       S33 and (kpa or mpa or psi or psia or psig)       USPAT         S35       82       (US-6286524-\$ or US-4743419-\$ or US-US-AT       USPAT	S28	3	"2002072952"	· ·
cylinder\$4 and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))  S30 11 D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))  S31 25 ("vac" with cylinder) and (metso or valmet) USPAT  S32 5 S29 and S31 USPAT  S33 5 (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.  S34 5 S33 and (kpa or mpa or psi or psia or psig) USPAT  S35 82 (US-6286524-\$ or US-4743419-\$ or US-USPAT				
underpressure) with (kpa or mpa or psi or psia or psig))  S30 11 D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))  S31 25 ("vac" with cylinder) and (metso or valmet) USPAT  S32 5 S29 and S31 USPAT  S33 5 (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.  S34 5 S33 and (kpa or mpa or psi or psia or psig) USPAT  S35 82 (US-6286524-\$ or US-4743419-\$ or US-USPAT	S29	82		USPAT
psia or psig)     D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))   S31   25   ("vac" with cylinder) and (metso or valmet)   USPAT   S32   5   S29 and S31   USPAT   USPAT   S33   5   (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$ ).did.   S34   5   S33 and (kpa or mpa or psi or psia or psig)   USPAT   S35   82   (US-6286524-\$ or US-4743419-\$ or US-USPAT   USPAT   USPAT   USPAT   S35   S20   US-6286524-\$ or US-4743419-\$ or US-SAT   USPAT   USPAT			'''	
S30       11       D21F005\$.ipc. and ((suction or vacuum or underpressure) with (kpa or mpa or psi or psia or psig))       USPAT         S31       25       ("vac" with cylinder) and (metso or valmet)       USPAT         S32       5       S29 and S31       USPAT         S33       5       (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.       USPAT         S34       5       S33 and (kpa or mpa or psi or psia or psig)       USPAT         S35       82       (US-6286524-\$ or US-4743419-\$ or US-       USPAT			. , , , , , , , , , , , , , , , , , , ,	
underpressure) with (kpa or mpa or psi or psia or psig))  S31 25 ("vac" with cylinder) and (metso or valmet) USPAT  S32 5 S29 and S31 USPAT  S33 5 (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.  S34 5 S33 and (kpa or mpa or psi or psia or psig) USPAT  S35 82 (US-6286524-\$ or US-4743419-\$ or US-USPAT	80	11		LICDAT
psia or psig))  S31 25 ("vac" with cylinder) and (metso or valmet) USPAT  S32 5 S29 and S31 USPAT  S33 5 (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.  S34 5 S33 and (kpa or mpa or psi or psia or psig) USPAT  S35 82 (US-6286524-\$ or US-4743419-\$ or US-USPAT	330			USPAT
S31       25       ("vac" with cylinder) and (metso or valmet)       USPAT         S32       5       \$29 and \$31       USPAT         S33       5       (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.       USPAT         S34       5       \$33 and (kpa or mpa or psi or psia or psig)       USPAT         S35       82       (US-6286524-\$ or US-4743419-\$ or US-US-4743419-\$ or US-US-4743419-\$ or US-US-4743419-\$ or US-4743419-\$ or US-4743419-				
S32       5       S29 and S31       USPAT         S33       5       (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.       USPAT         S34       5       S33 and (kpa or mpa or psi or psia or psig)       USPAT         S35       82       (US-6286524-\$ or US-4743419-\$ or US-US-4743419-\$ or US-US-4743419-\$ or US-US-4743419-\$ or US-4743419-\$ or US-474449-\$	S31	25		LISPAT
S33 5 (US-5775001-\$ or US-5586397-\$ or US-7150111-\$ or US-5862613-\$ or US-5630285-\$).did.  S34 5 S33 and (kpa or mpa or psi or psia or psig) USPAT S35 82 (US-6286524-\$ or US-4743419-\$ or US- USPAT				
7150111-\$ or US-5862613-\$ or US-5630285- \$).did. S34 5 S33 and (kpa or mpa or psi or psia or psig) USPAT S35 82 (US-6286524-\$ or US-4743419-\$ or US- USPAT				
\$).did.  S34 5 S33 and (kpa or mpa or psi or psia or psig) USPAT  S35 82 (US-6286524-\$ or US-4743419-\$ or US- USPAT	~~			30,71
S34         5         S33 and (kpa or mpa or psi or psia or psig)         USPAT           S35         82         (US-6286524-\$ or US-4743419-\$ or US-         USPAT				
S35 82 (US-6286524-\$ or US-4743419-\$ or US-	S34	5	i '	USPAT
			6197154-\$ or US-6187137-\$ or US-6162327-\$	
or US-5316622-\$ or US-7399378-\$ or US-				

## **EAST Search History**

		underpressure) with (pascal or pascals or "Pa" or "pas"))	
S38	6	D21F005\$.ipc. and ((suction or vacuum or	USPAT
S37	2	(("5022163") or ("5172491")).PN.	USPAT
S36	82	S35 and (kpa or mpa or psi or psia or psig)	
			USPAT